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Reducing communication overhead is extremely important in distributed-memory message-passing architectures. In this article, we present a technique to improve communication that considers data access patterns of the entire program. Our approach is based ...

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5 [Modeling statecharts and activitycharts as signal equations](#)

 [J.-R. Beauvais](#), [E. Rutten](#), [T. Gautier](#), [R. Houdebine](#), [P. Le Guernic](#), [Y.-M. Tang](#)

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A soft type system infers types for the procedures and data structures of dynamically typed programs. Like conventional static types, soft types express program invariants and thereby provide valuable information for program optimization ...

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 [Phillip B. Gibbons](#), [Yossi Matias](#), [Viswanath Poosala](#)

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Keywords: Approximation, histograms, incremental maintenance, query optimization, sampling

8 [Model checking multi-agent systems with MABLE](#)

 [Michael Wooldridge](#), [Michael Fisher](#), [Marc-Philippe Hugel](#), [Simon Parsons](#)

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Keywords: speculative execution, stride value prediction, value prediction

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Agents are small programs that autonomously take actions based on changes in their environment or "state". Over the last few years, there has been an increasing number of efforts to build agents that can interact and/or collaborate with other ...

Keywords: logic programming, multi-agent reasoning, probabilistic reasoning, uncertainty

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We describe an initiative under way at Warwick to provide a technical foundation for computer-aided learning and computer-assisted assessment tools, which allows a rich dialogue sensitive to individual students' response patterns. The system distinguishes ...

Keywords: CAA, CAL, DTD, XML, markup

12 Schedulability-driven performance analysis of multiple mode embedded real-time systems

 Yongssoo Shin, Daehong Kim, Kiyoung Choi

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Providing multiple modes to support dynamically changing environments, standards, and new services is prevalent in embedded systems, especially in mobile radio systems. Because such a system frequently contains time-constrained tasks, it is important ...

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 Neng-Fa Zhou

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Keywords: abstract interpretation, alias analysis, dataflow analysis, destructive updating, pointer analysis, shape analysis, shape graphs, static analysis

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 Daniel A. Jiménez, Calvin Lin

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This article presents a new and highly accurate method for branch prediction. The key idea is to use one of the simplest possible neural methods, the perceptron, as an alternative to the commonly used two-bit counters. The source of our predictor's accuracy ...

Keywords: Branch prediction, neural networks

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 Roy T. Fielding, Richard N. Taylor

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The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, ...

Keywords: Network-based applications, REST, World Wide Web

17 On type systems for object-oriented database programming languages

Yuri Leontiev, M. Tamer Özsu, Duane Szafron

December 2002

Computing Surveys (CSUR) , Volume 34 Issue 4

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The concept of an object-oriented database programming language (OODBPL) is appealing because it has the potential of combining the advantages of object orientation and database programming to yield a powerful and universal programming language design. ...

Keywords: OODB, OODBPL, object-oriented database programming language, type checking, typing

18 Design issues for general-purpose adaptive hypermedia systems

Hongjing Wu, Erik de Kort, Paul De Bra

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A hypermedia application offers its users much freedom to navigate through a large hyperspace. For authors finding a good compromise between offering navigational freedom and offering guidance is difficult, especially in applications that target a broad ...

Keywords: active databases, adaptation rules, adaptive hypermedia, confluence, termination, user modeling

19 Interprocedural pointer alias analysis

Michael Hind, Michael Burke, Paul Carini, Jong-Deok Choi

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We present practical approximation methods for computing and representing interprocedural aliases for

a program written in a language that includes pointers, reference parameters, and recursion. We present the following contributions: (1) a framework ...


Keywords: interprocedural analysis, pointer aliasing, program analysis

20 A text-compression-based method for code size minimization in embedded systems

 Stan Liao, Srinivas Devadas, Kurt Keutzer

January 1999 **Transactions on Design Automation of Electronic Systems (TODAES)** , Volume 4 Issue 1

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We address the problem of code-size minimization in VLSI systems with embedded DSP processors. Reducing code size reduces the production cost of embedded systems we use data-compression methods to develop code-size minimization strategies. In our framework, ...

Keywords: code size optimization, compression

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Keywords: communication optimizations, data-flow analysis, distributed-memory machines, global optimizations, message vectorization, parallelism

3 Modeling statecharts and activitycharts as signal equations

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 Andrew K. Wright, Robert Cartwright

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MABLE is a language for the design and automatic verification of multi-agent systems. MABLE is essentially a conventional imperative programming language, enriched by constructs from the agent-oriented programming paradigm. A MABLE system contains a ...

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Jürgen Dix, Mirco Nanni, V. S. Subrahmanian

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Neng-Fa Zhou

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 Mooly Sagiv, Thomas Peps, Reinhard Wilhelm

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We present practical approximation methods for computing and representing interprocedural aliases for a program written in a language that includes pointers, reference parameters, and recursion. We present the following contributions: (1) a framework ...

Keywords: interprocedural analysis, pointer aliasing, program analysis

16 [A text-compression-based method for code size minimization in embedded systems](#)
 Stan Liao, Srinivas Devadas, Kurt Keutzer

 January 1999 **Transactions on Design Automation of Electronic Systems (TODAES)** , Volume 4 Issue 1

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 Full text available:  [Pdf](#) (184.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)
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We address the problem of code-size minimization in VLSI systems with embedded DSP processors. Reducing code size reduces the production cost of embedded systems we use data-compression methods to develop code-size minimization strategies. In our framework, ...


Keywords: code size optimization, compression
17 [A database model for object dynamics](#)
[M. P. Papazoglou](#), [B. J. Krämer](#)

 May 1997 **The VLDB Journal — The International Journal on Very Large Data Bases** , Volume 6 Issue 2

Publisher: Springer-Verlag New York, Inc.

 Full text available:  [Pdf](#) (313.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 39, Downloads (Overall): 376, Citation Count: 8

To effectively model complex applications in which constantly changing situations can be represented, a database system must be able to support the runtime specification of structural and behavioral nuances for objects on an individual or group basis. ...

Keywords: Dynamic class hierarchy, Dynamic object re-classification, Object migration, Object role model, Object-oriented database systems
18 [Search and strategies in OPL](#)
 [Pascal Van Hentenryck](#), [Laurent Perron](#), [Jean-Francois Puget](#)
 October 2000 **Transactions on Computational Logic (TOCL)** , Volume 1 Issue 2


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 Full text available:  [Pdf](#) (169.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 90, Downloads (Overall): 688, Citation Count: 9

OPL is a modeling language for mathematical programming and combinatorial optimization. It is the first language to combine high-level algebraic and set notations from mathematical modeling languages with a rich constraint language and the ability to ...

Keywords: combinatorial optimization, constraint programming, modeling languages, search

19 Clarifying the fundamentals of HTTP

 Jeffery C. Mogul

May 2002 **WWW '02: Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM


Full text available:  Pdf (157.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 90, Downloads (Overall): 916, Citation Count: 2

The simplicity of HTTP was a major factor in the success of the Web. However, as both the protocol and its uses have evolved, HTTP has grown complex. This complexity results in numerous problems, including confused implementors, interoperability failures, ...

Keywords: HTTP, protocol design

20 Register tiling in nonrectangular iteration spaces

 Marta Jiménez, José M. Laberia, Agustín Fernández

July 2002 **Transactions on Programming Languages and Systems (TOPLAS)**, Volume 24 Issue 4

Publisher: ACM 

Full text available:  Pdf (2.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 69, Downloads (Overall): 469, Citation Count: 8

Loop tiling is a well-known loop transformation generally used to expose coarse-grain parallelism and to exploit data reuse at the cache level. Tiling can also be used to exploit data reuse at the register level and to improve a program's ILP. However, ...

Keywords: Data reuse, locality, loop optimization, loop tiling, register level

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